

POST-PROCESSING QA/QC OF HYDRO-METEOROLOGICAL DATA

WHAT IS IT?

- Rigorous examination of data to ascertain and/or improve its quality
- Done after the data processing/initial QA/QC and flow computations
- Global QA/QC
- Checks the entire data production process, from data measurement, collection, transmission, processing and flow computations/streamgaging

WHY DO IT?

- Millions of data records are collected and posted to DBHydro after data processing, initial QA/QC and flow computation
- Post-processing QA/QC performed on a subset of those data to meet various legally mandated data requirements, such as:
 - * Everglades Agricultural Area Rulemaking
 - * Stormwater Treatment Areas
 - * Chapter 40E-63, Florida Administrative Code
 - * Everglades Construction Project
- A large percentage of QA/QC functions are committed to fulfilling these data needs
- Lack of resources prevent post-processing QA/QC of entire District data set
- Currently making a proposal to do this

Used to support many District activities, including:

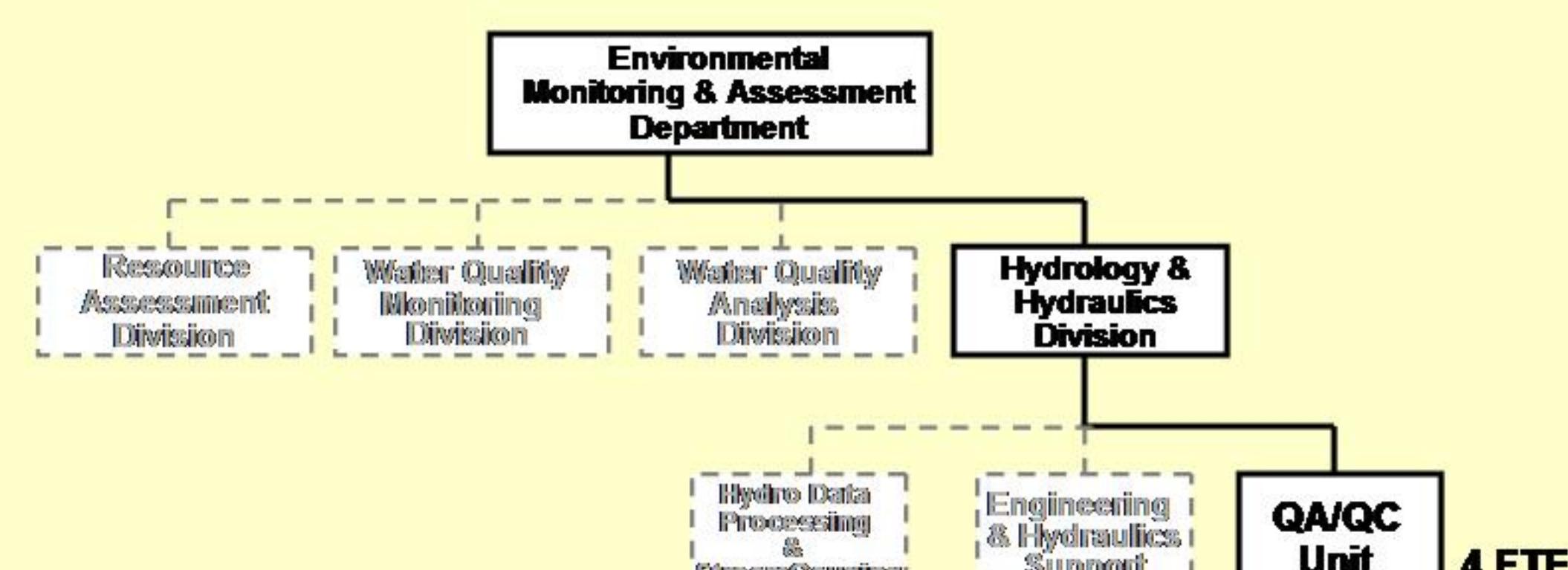
- Water supply, water budget and water quality analyses
- Flood plain studies, flood control planning, and flood frequency analyses
- Hydrologic modeling
- Assessment of ecological restoration efforts, and
- Design of new water control structures

These needs are met by providing what is known as "preferred data"

Preferred Data

- Best available data
- Composed of the most appropriate combination of data available from any known source
- Production is accomplished through a series of data and statistical analyses

WHERE IS IT DONE?



HOW IS IT DONE?

- Investigate data records to detect anomalies
- Correct them and/or prevent them from occurring again
- Forensic Hydrology



Tools

- Site knowledge
- Application of engineering know-how
- Comparison to historical patterns
- Graphical inspection
- Communication
- Statistical analysis
- Alternate data sets
- Mass balance analysis

Flow Chart of QA/QC Procedures for Flow Data

